

Title (en)
DEVICE FOR INHALATION-SYNCHRONISED DISPENSING OF A FLUID PRODUCT

Title (de)
VORRICHTUNG ZUR INHALATIONSSYNCHRONISIERTEN AUSGABE EINES FLÜSSIGPRODUKTS

Title (fr)
DISPOSITIF DE DISTRIBUTION DE PRODUIT FLUIDE SYNCHRONISE AVEC L'INHALATION

Publication
EP 3717048 A1 20201007 (FR)

Application
EP 18830906 A 20181126

Priority
• FR 1761334 A 20171129
• FR 2018052979 W 20181126

Abstract (en)
[origin: WO2019106270A1] A device for inhalation-synchronised dispensing of a fluid product, comprising a body (10) provided with a mouthpiece (400), a reservoir (100) containing a fluid product and a propellant gas being axially mounted so as to slide in said body (10), a metering valve (200) being assembled on said reservoir (100) in order to selectively dispense the fluid product, said device comprising an immobilising element (500) which can be moved and/or deformed between a non-actuating position, in which said metering valve (200) cannot be actuated, and an actuating position, in which said metering valve (200) can be actuated, and a triggering system controlled by inhalation, comprising an inhalation-sensitive member (60) that can be deformed and/or moved under the effect of inhalation, said inhalation-sensitive member (60), when it deforms and/or moves, moving and/or deforming said actuating element (500) from its non-actuating position to its actuating position, said device comprising an actuator (20) attached on said reservoir (100), said actuator (20) comprising a proximal wall (22) that is fixed, in particular force-fitted, on the bottom of the reservoir (100), a body (23) sliding axially around said proximal wall (22), and a spring (21) arranged between said proximal wall (22) and a distal wall (24) of said body (23), said body (23) sliding axially around said proximal wall (22) between a rest position and a loaded position, in which said spring (21) is compressed, such that after actuating said triggering system controlled by inhalation, said compressed spring (21) axially moves said reservoir (100) in said body (10) in order to actuate said metering valve (200).

IPC 8 full level
A61M 15/00 (2006.01)

CPC (source: EP US)
A61M 15/0021 (2014.02 - US); **A61M 15/009** (2013.01 - EP US); **A61M 15/0091** (2013.01 - EP); **A61M 15/0095** (2014.02 - EP US); **A61M 15/0025** (2014.02 - EP US); **A61M 2205/586** (2013.01 - EP); **A61M 2205/8281** (2013.01 - EP US)

Citation (search report)
See references of WO 2019106270A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
FR 3074051 A1 20190531; **FR 3074051 B1 20191122**; CN 111405920 A 20200710; CN 111405920 B 20220325; EP 3717048 A1 20201007; EP 3717048 B1 20210818; JP 2021504056 A 20210215; JP 7212043 B2 20230124; US 11865249 B2 20240109; US 2020282160 A1 20200910; WO 2019106270 A1 20190606

DOCDB simple family (application)
FR 1761334 A 20171129; CN 201880076285 A 20181126; EP 18830906 A 20181126; FR 2018052979 W 20181126; JP 2020529363 A 20181126; US 201816764089 A 20181126